



# COMMONWEALTH of VIRGINIA

## DEPARTMENT OF ENVIRONMENTAL QUALITY

### PIEDMONT REGIONAL OFFICE

4949A Cox Road, Glen Allen, Virginia 23060

(804) 527-5020 Fax (804) 527-5106

[www.deq.virginia.gov](http://www.deq.virginia.gov)

Molly Joseph Ward  
Secretary of Natural Resources

David K. Paylor  
Director

Michael P. Murphy  
Regional Director

May 22, 2014

Mr. Eric Spencer  
General Manager  
Brunswick Waste Management Facility, LLC  
107 Mallard Crossing Road  
Lawrenceville, VA 23868

Location: Brunswick County  
Registration No.: 31007  
County-Plant ID No. 51-025-0030

Dear Mr. Spencer:

Attached is a renewal Title V permit to operate your municipal solid waste landfill pursuant to 9 VAC 5 Chapter 80 of the Virginia Regulations for the Control and Abatement of Air Pollution. This permit incorporates provisions from the permit dated January 28, 2010.

The permit contains legally enforceable conditions. Failure to comply may result in a Notice of Violation and civil penalty. Please read all permit conditions carefully.

In evaluating the application and arriving at a final decision to issue this permit, the Department deemed the application complete on February 7, 2014 and solicited written public comments by placing a newspaper advertisement in the Brunswick Times-Gazette Newspaper on April 2, 2014. The thirty (30) day comment period (provided for in 9 VAC 5-80-270) expired on May 2, 2014, with no comments having been received in this office. The US EPA forty-five (45) day concurrent comment period expired on May 19, 2014, with no comments having been received in this office.

This approval to operate does not relieve Brunswick Waste Management Facility, LLC of the responsibility to comply with all other local, state, and federal permit regulations.

Issuance of this permit is a case decision. The Regulations, at 9 VAC 5-170-200, provide that you may request a formal hearing from this case decision by filing a petition with the Board within 30 days after this permit is mailed or delivered to you. Please consult that and other relevant provisions for additional requirements for such requests.

Additionally, as provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 days from the date you actually received this permit or the date on which it was mailed to you, whichever occurred first, within which to initiate an appeal to court by filing a Notice of Appeal with:

David K. Paylor, Director  
Department of Environmental Quality  
P.O. Box 1105  
Richmond, Virginia 23218

In the event that you receive this permit by mail, three days are added to the period in which to file an appeal. Please refer to Part Two A of the Rules of the Supreme Court of Virginia for additional information including filing dates and the required content of the Notice of Appeal.

If you have any questions concerning this permit, please call the regional office at 804-527-5020.

Sincerely,



James E. Kyle, P.E.  
Air Permit Manager

JEK/hll/ 31007\_14 TitleVPermitCoverLetter05222014.docx

Attachment: Permit  
40 CFR 60, NSPS Subpart WWW  
40 CFR 63, NESHAP Subpart AAAAA  
67 FR 36476, May 23, 2002

cc: Director, OAPP (electronic file submission)  
Manager, Data Analysis (electronic file submission)  
Chief, Air Enforcement Branch (3AT13), U.S. EPA, Region III



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## Federal Operating Permit Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1 of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-300 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name: Brunswick Waste Management Facility, LLC  
Facility Name: Brunswick Waste Management Facility  
Facility Location: 107 Mallard Crossing Road  
Lawrenceville, Virginia  
Registration Number: 31007  
Permit Number: PRO-31007

This permit includes the following programs:

**Federally Enforceable Requirements - Clean Air Act (Pages 4 through 30)**

**State Only Enforceable Requirements (Page 30)**

May 22, 2014  
Effective Date

May 21, 2019  
Expiration Date

  
\_\_\_\_\_  
Kyle Ivor Winter, P.E.  
Deputy Regional Director

22 May 2014  
Signature Date

Table of Contents, 1 page  
Permit Conditions, 30 pages

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**Facility Information**

Permittee/Facility Name

Brunswick Waste Management Facility, LLC  
107 Mallard Crossing Road  
Lawrenceville, Virginia 23868

**Responsible Official**

Mr. Eric Spencer,  
Division Manager

**Facility Contact**

Mr. Eric Spencer  
(434) 848-9277

**County-Plant Identification Number:** 51-025-0030

**FACILITY DESCRIPTION:** NAICS Code 562212 - Brunswick Waste Management Facility, LLC is a Municipal Solid Waste (MSW) landfill. The facility is permitted to construct and operate a 17.7 million mega-grams (22,945,800 cubic yards) Municipal Solid Waste SLA facility and a landfill gas collection system using utility flares for controlling NMOC emissions. The facility consists of two distinct disposal areas; an area permitted to accept only municipal solid waste incinerator ash and non-putrescible materials known as the Northern Solid Waste Disposal Area (NSWDA) and an area accepting only municipal solid waste known as the Sanitary Landfill Area (SLA). The NSWDA has an estimated design capacity of 7,661,500 cubic yards (7,278,425 tons) and consists of six (6) permitted cells (Cells A1, A2, B, C, D, and E), with a landfill footprint of approximately 78.8 acres. The SLA has an estimated design capacity of 22,945,800 cubic yards (19,503,930 tons) and consists of six (6) cells (Cells 1A, 2, 3, 4, 5 and 6) with a landfill footprint of approximately 174 acres. LFG emissions estimate from the NSWDA is negligible and not quantified in the emission inventory. The facility operates under the terms of Solid Waste Permit No. 583, issued by the DEQ Waste Division. The facility is a Title V major source of non-methane organic compounds (NMOC's) as defined under the New Source Performance Standard (NSPS) 'Subpart WWW - Standards of Performance for Municipal Solid Waste Landfills and the Landfill MACT (40 CFR 63 Subpart AAAA). Because the facility is subject to Subpart WWW, it is required to collect and control the emission of landfill gas and is subject to Title V permitting. The Brunswick Waste Management Facility began accepting waste in April of 1997. An Initial Design Capacity Report was received from Brunswick Waste Management Facility on September 1998. The Gas Collection and Control System (GCCS) Design Plan was submitted by the source on August 29, 2000 and the GCCS was installed in March of 2000. The latest GCCS Design Plan was approved on November 14, 2012. The initial Title V permit was issued on July 2, 1999 and amended on December 28, 2001 and September 25, 2008. The initial [semi-]annual report was submitted on October 30, 2000. The 1000 scfm open flare PCD-3 was permitted on January 28, 2010. The 1000 scfm utility flare has not been installed. The currently installed flares, PCD-1 and PCD-2 initial performance testing consistent with the provisions of 40 CFR 60.8 and 60.18 was conducted and approved as follows:

	<b>Testing Date</b>	<b>Test Report Received</b>	<b>Approved</b>
F-1	(Enclosed Flare Removed)		
PCD-1	December 13, 2006	January 22, 2007	March 16, 2007
PCD-2	February 4, 2003	February 28, 2003	March 4, 2003
PCD-3	(Not Installed)	NA	NA

\* Installed flares met the operating and emission limitations of 40 CFR 60.18 during the initial performance Tests.

The facility is a Title V major source of NMOC. This source is located in an attainment area for all pollutants, and is a PSD minor source. The facility currently operates under the terms of a State Major Air Permit revised January 28, 2010. This air permit action is both a significant permit modification based on the January 28, 2010 State Major permit and is a Title V permit renewal. The renewal application was received on December 21, 2009 and was deemed timely and administratively complete. Therefore, the Title V permit application shield is in place.

**Emission Units - (emission unit ID #P01, PCD-1, PCD-2, PCD-3)**

Equipment to be operated consists of:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device Description (PCD)	PCD ID	Pollutant Controlled	Applicable Permit Date
Fuel Burning and Process Equipment							
PCD-1	1	John Zink	105 Million BTU/Hour, 3500 scfm maximum	Open Flare System		NMOC, VOC	01/28/2010
PCD-2	2	PEI	60 Million BTU/Hour, 2000 scfm maximum	Open Flare System		NMOC, VOC	01/28/2010
PCD-3	3	PEI or equal	30 Million BTU/Hour, 1000 scfm maximum	Open Flare System		NMOC, VOC	01/28/2010
Process Equipment							
P01 (GCCS)		Municipal Solid Waste Landfill SLA, Solid Waste Permit No. 583 [Landfill Surface and Roads]	17,693,668 Megagrams/ 22,945,800 CY	See Flares above	1	NMOC	01/28/2010

\*The Size/Rated capacity and PCD efficiency is provided for informational purposes only, and is not an applicable requirement.

**Fuel Burning and Process Equipment Requirements - (emission unit ID#P01, PCD-1, PCD-2, PCD-3) – Limitations -**

1. **Fuel Burning Equipment Requirements-(emission unit ID# PCD-1, PCD-2, PCD-3)- Limitations-** The open flares shall be operated with no visible emissions, as determined by EPA Method 22, except for periods not to exceed a total of 5 minutes during two consecutive hours. At all times, including periods of startup, shutdown and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions.  
  
(9 VAC 5-80-110, 9 VAC 5-50-410 and Condition 13 of the NSR permit dated 01/28/2010)
2. **Fuel Burning Equipment Requirements-(emission unit ID# PCD-1, PCD-2, PCD-3)- Limitations-** The approved fuel for the open flares is landfill gas. Each flare may also use propane gas to ignite the pilot flame in each flare. A change in fuel may require a permit to modify and operate.  
  
(9 VAC 5-80-110 and Condition 11 of the NSR permit dated 01/28/2010)
3. **Fuel Burning Equipment Requirements-(emission unit ID# PCD-1, PCD-2, PCD-3)- Limitations-** The enclosed flare shall remain shutdown. Re-activation of the enclosed flare may require a permit to modify and operate.  
  
(9 VAC 5-80-110, 9 VAC 5-50-410 and Condition 12 of the NSR permit dated 01/28/2010)
4. **Fuel Burning Equipment Requirements-(emission unit ID# PCD-3)- Limitations-** Emissions from the operation of the 1000 scfm PEI or equal open flare shall not exceed the limits specified below:

Particulate Matter/PM <sub>10</sub>	0.5 lbs/hr	2.2 tons/yr (9 VAC 5-50-260)
Sulfur Dioxide	0.8 lbs/hr	3.7 tons/yr (9 VAC 5-50-260)
Nitrogen Oxides	2.0 lbs/hr	8.9 tons/yr (9 VAC 5-50-260)
Carbon Monoxide	4.5 lbs/hr	19.7 tons/yr (9 VAC 5-50-260)
Non-Methane Organic Compounds	0.2 lbs/hr	0.7 tons/yr (9 VAC 5-50-260)
Volatile Organic Compounds	0.1 lbs/hr	0.3 tons/yr (9 VAC 5-50-260)

(9 VAC 5-80-110 and Condition 14 of the NSR permit dated 01/28/2010)



5. **Fuel Burning Equipment Requirements-(emission unit ID# PCD-2)- Limitations-** Emissions from the operation of the 2000 scfm PEI or equal open flare shall not exceed the limits specified below:

Particulate Matter/PM <sub>10</sub>	1.0 lbs/hr	4.4 tons/yr (9 VAC 5-50-260)
Sulfur Dioxide	1.7 lbs/hr	7.4 tons/yr (9 VAC 5-50-260)
Nitrogen Oxides	4.1 lbs/hr	17.9 tons/yr (9 VAC 5-50-260)
Carbon Monoxide	9.0 lbs/hr	39.4 tons/yr (9 VAC 5-50-260)
Non-Methane Organic Compounds	0.7 lbs/hr	1.3 tons/yr (9 VAC 5-50-260)
Volatile Organic Compounds	0.1 lbs/hr	0.5 tons/yr (9 VAC 5-50-260)

(9 VAC 5-80-110 and Condition 15 of the NSR permit dated 01/28/2010)

6. **Fuel Burning Equipment Requirements-(emission unit ID# PCD-1)- Limitations-** Emissions from the operation of the 3500 scfm John Zink or equal open flare shall not exceed the limits specified below:

Particulate Matter/PM <sub>10</sub>	1.8 lbs/hr	7.7 tons/yr (9 VAC 5-50-260)
Sulfur Dioxide	2.9 lbs/hr	12.9 tons/yr (9 VAC 5-50-260)
Nitrogen Oxides	7.1 lbs/hr	31.3 tons/yr (9 VAC 5-50-260)
Carbon Monoxide	26.3 lbs/hr	115.0 tons/yr (9 VAC 5-50-260)
Non-Methane Organic Compounds	0.2 lbs/hr	0.9 tons/yr (9 VAC 5-50-260)
Volatile Organic Compounds	0.2 lbs/hr	0.9 tons/yr (9 VAC 5-50-260)

(9 VAC 5-80-110 and Condition 16 of the NSR permit dated 01/28/2010)

7. **Fuel Burning Equipment Requirements-(emission unit ID# PCD-1, PCD-2, PCD-3)- Limitations-** The open flares shall be subject to the following requirements listed in 40 CFR 60.18 and 40 CFR 60.756.

- a. A nonassisted flare type shall be installed.
- b. The net heating value for the landfill gas being combusted shall be 200 BTU/SCF or greater and determined according to methods listed in 40 CFR 60.18(f)(3) or other methods approved by EPA, Region III.

- c. The exit velocity shall be less than 60 FT/SEC except when the net heating value for the landfill gas is greater than 1,000 BTU/SCF **OR** the exit velocity is less than  $V_{MAX}$  and less than 400 FT/SEC. The exit velocity shall be determined using the applicable methods listed in 40 CFR 60.18(f)(4) and 40 CFR 60.18(f)(5) or methods approved by EPA, Region III.
- d. Designed and operated to reduce NMOC by 98 weight-percent,
- e. A heat sensing device, such as an ultraviolet beam sensor or thermocouple, shall be installed at the open flare's pilot light or the flame itself to indicate the continuous presence of a flame.
- f. A gas flowmeter shall be installed, calibrated, and maintained to record the landfill gas flow to the open flare at minimum every 15 minutes.

(9 VAC 5-80-110 and Condition 5 of the NSR permit dated 01/28/2010)

8. **Fuel Burning Equipment and Process Equipment Requirements-(emission unit ID#P01, PCD-1, PCD-2, PCD-3)- Limitations-** The permittee shall operate the active landfill gas (LFG) collection and control system for the Brunswick Waste Management Facility in the following manner:

- a. Designed the system to handle the maximum expected gas flow rate from cells 1A, 2, 3, 4, 5, and 6, which has been calculated to be 3,076,731,000 cubic feet per year, using the procedures listed in 40 CFR 60.755(a)(1). The maximum expected gas flow rate shall be recalculated when design capacity is increased or additional cells other than those listed are proposed for landfill expansion and the LFG system shall be redesigned to handle the maximum expected gas flow rate from the entire area of the landfill;
- b. Collects gas from each area, cell, or group of cells from the SLA in which initial solid waste has been placed for a period of:
  - 1) 5 years or more, if active; or
  - 2) 2 years or more if closed or at final grade;
- c. Collects gas at a sufficient extraction rate. Upon maturation of the landfill and full implementation of the gas collection system, the gas collection system shall have an average collection efficiency of 75%.
- d. Operated each wellhead under negative pressure except as provided in 40 CFR 60.753 (b);
- e. Operated each interior wellhead in the collection system having a landfill gas temperature less than 55° C and having either:
  - 1) A nitrogen content less than 20 percent, as determined by 40 CFR 60 Appendix A Method 3C, or alternate test method if established in the design report, in accordance with 40 CFR 60.752(b)(2)(i); or
  - 2) An oxygen content less than 5 percent, as determined by 40 CFR 60 Appendix A Method 3A, incorporating exemptions as listed in 40 CFR 60.753(c)(2).

A higher operating value demonstration shall show supporting data that the elevated parameter does not cause fires or significantly inhibit anaerobic decomposition by killing methanogens. [A higher operating temperature, nitrogen, or oxygen value at a particular well location may be established by a demonstration in accordance with 40 CFR 60.753(c)(2).]

- f. Design the system to minimize off-site migration of subsurface gas by installing liners meeting the requirements listed in 40 CFR 258.40 for Cells 1A, 2, 3, 4, 5, and 6;
- g. Route the collected landfill gas to a treatment system that processes the collected gas for subsequent sale or use. All emissions from any atmospheric vent from the gas treatment system is subject to the requirements listed in h and i;  
**AND/OR**
- h. Control landfill gas emissions by routing the collected landfill gas to the open flares. The installation of new open flare must occur within 18 months from the phased construction date in the permit application or this permit is invalidated. The open flare must meet the criteria in 40 CFR 60.18;
- i. Maintain the methane concentration at the surface of the landfill at less than 500 ppmv above the background level.

A change in the control system to those listed in items g and h may require a permit to modify and operate.

(9 VAC 5-50-110 and Condition 4 of the NSR permit dated 01/28/2010)

- 9. **Fuel Burning Equipment and Process Equipment Requirements-(emission unit ID#P01, PCD-1, PCD-2, PCD-3)- Limitations-** The gas control [for the open flare(s)] shall be in operation at all times when the collected gas is routed to the system. The gas mover system shall be shut down and all valves in the collection and control system allowing atmospheric venting of landfill gases shall be closed within 1 hour if the collection or control system is inoperable.

(9 VAC 5-80-110 and Condition 10 of the NSR permit dated 01/28/2010)

**Fuel Burning Equipment and Process Equipment Requirements-(emission unit ID#P01, PCD-1, PCD-2, PCD-3)- Monitoring-**

- 10. **Fuel Burning Equipment and Process Equipment Requirements-(emission unit ID#P01, PCD-1, PCD-2, PCD-3)- Monitoring-** The operation of the gas collection system shall be monitored as follows:
  - a. The following items shall be monitored each month:
    - 1) Gauge pressure, each well.
    - 2) LFG temperature, each well.
    - 3) Nitrogen content or oxygen concentration, each well.
    - 4) Cover integrity.

- b. The methane concentration at landfill surface shall be monitored at least once every quarter. The methane concentration shall be monitored in accordance with 40 CFR 60.755(d).

(9 VAC 5-80-110, 40 CFR 60.753, 40 CFR 60.755 (c)(5) and Condition 21 of the NSR permit dated 01/28/2010)

- 11. **Fuel Burning Equipment and Process Equipment Requirements-(emission unit ID#P01, PCD-1, PCD-2, PCD-3)- Monitoring-** The operation of the gas control system shall be monitored as follows:
  - a. Gas flow recorded at least once every 15 minutes for each flare.
  - b. The presence of the pilot flame or the flare flame shall be continuously monitored by a heat sensing device and recorded for the open flares when landfill gas is being vented to the open flare.

(9 VAC 5-80-110 and Condition 22 of the NSR permit dated 01/28/2010)

- 12. **Fuel Burning Equipment and Process Equipment Requirements-(emission unit ID#P01, PCD-1, PCD-2, PCD-3)- Monitoring-** If monitoring demonstrates that the requirements of Conditions 16.c, d, e, f, g, h, i or j are not being met, corrective actions shall be taken as specified in 40 CFR 60.755(a)(3) through (a)(5) or 40 CFR 60.755(c). If corrective actions are taken as specified in 40 CFR 60.755(c)(4), the monitored exceedance is not a violation of the operational requirements of this permit or 40 CFR 60 Subpart WWW.

(9 VAC 5-80-110, 40 CFR 60.755 and Condition 23 of the NSR permit dated 01/28/2010)

- 13. **Fuel Burning Equipment and Process Equipment Requirements-(emission unit ID#P01, PCD-1, PCD-2, PCD-3)- Monitoring-** All monitoring equipment required to comply with Subpart WWW (subsection 60.756) shall be installed and operational by 180 days of the date of initial operation of the landfill gas collection and control system. Performance evaluation of the monitoring equipment shall take place during the initial performance test under Subpart WWW (40 CFR 60.752 and 40 CFR 60.754) or within 30 days thereafter. Two copies of the performance evaluation report shall be submitted to the Piedmont Regional Office within 45 days of the initial performance evaluation. Verification of satisfactory operation of monitoring equipment shall, at a minimum, include certification that manufacturer's written requirements or recommendations for installation, operation, and calibration of the devices have been followed.

(9 VAC 5-80-110 and Condition 24 of the NSR permit dated 01/28/2010)

- 14. **Fuel Burning Equipment and Process Equipment Requirements-(emission unit ID# PCD-1, PCD-2, PCD-3)- Monitoring-** The landfill gas collection and control system shall be monitored and all appropriate data recorded as required in Subpart WWW (Subsection 60.756).

(9 VAC 5-80-110, 40 CFR 60.756 and Condition 25 of the NSR permit dated 01/28/2010)

15. **Fuel Burning Equipment and Process Equipment Requirements-(emission unit ID# PCD-1, PCD-2, PCD-3)- Monitoring-** At least once per week an observation of the presence of visible emissions from the flare shall be made. If visible emissions are observed, the permittee shall:
- Take timely corrective action such that the flare resumes operation with no visible emissions, or,
  - Perform a visible emission evaluation (VEE) in accordance with 40 CFR 60, Appendix A, Method 9 to assure visible emissions from the flares are 5 percent opacity or less. The VEE shall be conducted for a total of 60 minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the flare resumes operation with visible emissions of 5 percent or less. The permittee shall maintain a flare observation log to demonstrate compliance. The log shall include the date and time of the observations, whether or not there were visible emissions, and any necessary corrective action.

(9 VAC 5-80-110)

**Fuel Burning Equipment and Process Equipment Requirements-(emission unit ID#P01, PCD-1, PCD-2, PCD-3)- Recordkeeping-**

16. **Fuel Burning Equipment Requirements-(emission unit ID#P01, PCD-1, PCD-2, PCD-3)- Recordkeeping-** The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the Director, Piedmont Region. These records shall include, but are not limited to:
- Current maximum design capacity, current amount of refuse in place, and year by year refuse accumulation rates.
  - Description, location, amount, and placement date of all nondegradable refuse including asbestos and demolition refuse placed in landfill areas which are excluded from landfill gas collection and control.
  - Installation date and location of all newly installed wells, horizontal gas collectors, and surface gas collectors.
  - Map or plot showing each existing and planned well in the gas collection system with each well uniquely identified.
  - Maximum expected gas flow rate calculated according to 40 CFR 60.755(a)(1).
  - The density of wells, horizontal collectors, surface collectors, or other gas extraction devices determined using the procedures listed in 40 CFR 60.759(a)(1).
  - The type of open flare (i.e. steam-assisted, air-assisted, or non-assisted) used, all visible emission readings, the heat content determination, gas flow rate measurements, and exit velocity determinations made during the required performance tests listed in Conditions 18 and 20 for the 1,000 scfm PEI open flare and the 3,500 scfm John Zink open flare.

- h. The flare pilot flame or flare flame continuous monitoring in each flare stack for the open flare.
- i. All periods of operations when landfill gas is being vented to the open flare during which the pilot flame or flare flame is absent for the open flare.
- j. The monthly monitored gauge pressure, temperature, and nitrogen or oxygen concentration for each well.
- k. The results from the monthly cover integrity monitoring and the date of cover repair.
- l. The quarterly monitored methane concentration at the landfill surface and the surface monitoring plan developed for the quarterly monitoring which includes a topographic map with the monitoring route at 30 meter intervals and the rationale for any site-specific deviations from the required intervals.
- m. The landfill gas flow, recorded at least once every 15 minutes for the open flares.
- n. All exceedances for the limitations and monitoring requirements listed in Conditions 10 and 12, the results from any subsequent readings of an exceedance parameter, the location of the exceedance, and the action taken to correct the exceedance.
- o. All decommissioned wells and supporting documentation to show the reason for decommissioning each well.
- p. Any inoperable periods exceeding 1 hour for the collection or control system.
- q. The yearly throughput of landfill gas to the open flare, calculated monthly as the sum of each consecutive 12 month period.
- r. Date of first waste placement for Cells 1A, 2, 3, 4, 5, and 6.
- s. Calculations detailing the estimated annual site specific density and maximum design capacity.
- t. A copy of the most recent approved gas collection and control system design plan.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110, 40 CFR 60.753, 40 CFR 60.758 and Condition 27 of the NSR permit dated 01/28/2010)

**Fuel Burning Equipment and Process Equipment Requirements-(emission unit ID#P01, PCD-1, PCD-2, PCD-3) - Testing**

17. **Fuel Burning Equipment and Process Equipment Requirements-(emission unit ID#P01, PCD-1, PCD-2, PCD-3)-Testing**-The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports will be provided at the appropriate locations.  
  
(9 VAC 5-80-110 and Condition 32 of the NSR permit dated 01/28/2010)
18. **Fuel Burning Equipment and Process Equipment Requirements-(emission unit ID# PCD-1, PCD-3)-Testing**-Initial performance test shall be conducted to determine the net heating value of the gas being combusted and the actual exit velocity for the new 1,000 scfm PEI open flare and 3,500 scfm John Zink or equal open flare. The tests for the open flare shall be performed, and demonstrate compliance, within 60 days after achieving maximum production rate at which the flare will be operated, but no later than 180 days after initial startup for the open flare. Tests shall be conducted and reported and data reduced as set forth in 9 VAC 5-50-30 and 9 VAC 5-60-30 of State Regulations. The test methods and procedures contained in 40 CFR 60.18(f)(3) and 40 CFR 60.18(f)(4) shall be used to determine the net heating value of the gas being combusted and the actual exit velocity for the open flare. The details of the test are to be arranged with the Director, Piedmont Regional Office. The permittee shall submit a test protocol at least thirty (30) days prior to testing for the open flare. Two (2) copies of the test results for the open flare shall be submitted to the Director, Piedmont Regional Office within 45 days after test completion. The test report shall conform to the test report format enclosed with this permit and shall be submitted with the semi-annual compliance report specified in Condition 21.  
  
(9 VAC 5-80-110, 40 CFR 60.18(f) and Condition 18 of the NSR permit dated 01/28/2010)
19. **Fuel Burning Equipment and Process Equipment Requirements-(emission unit ID# PCD-1, PCD-2, PCD-3)-Testing**-After the installation of a gas collection and control system in compliance with 40 CFR 60.755, the permittee shall determine the actual NMOC concentration and LFG flow rate and shall calculate the NMOC emission rate in accordance with 40 CFR 60.754 (b) for determining when the gas collection and control system can be removed.  
  
(9 VAC 5-80-110, 40 CFR 60.752 and Condition 19 of the NSR permit dated 01/28/2010)

20. **Fuel Burning Equipment and Process Equipment Requirements-(emission unit ID# PCD-1, PCD-3)-Testing-** Concurrently with the initial performance tests, Visible Emission Evaluations (VEE) in accordance with 40 CFR Part 60, Appendix A, Method 22, shall also be conducted by the permittee on the open flares. Each observation period shall be 2 hours. The details of the tests are to be arranged with Director, Piedmont Regional Office. The permittee shall submit a test protocol at least 30 days prior to testing. The evaluation shall be performed within 60 days after achieving the maximum production rate at which the open flare will be operated but no later than 180 days after initial start up of the open flare. Should conditions prevent observations, the Director, Piedmont Regional Office shall be notified in writing, within seven days, and visible emissions testing shall be rescheduled within 30 days. Rescheduled testing shall be conducted under the same conditions (as possible) as the initial performance tests. Two copies of the test result shall be submitted to the Director, Piedmont Regional Office within 45 days after test completion and shall conform to the test report format enclosed with this permit.

(9 VAC 5-80-110 and Condition 20 of the NSR permit dated 01/28/2010)

**Fuel Burning Equipment and Process Equipment Requirements-(emission unit ID#P01, PCD-1, PCD-2, PCD-3)-Reporting-**

21. **Fuel Burning Equipment and Process Equipment Requirements-(emission unit ID# PCD-1, PCD-2, PCD-3)-Reporting -** A semi-annual compliance report shall be submitted to the Director, Piedmont Regional Office by the date specified below and shall contain the following:
- a. The initial performance test report for each new open flare shall contain the following information:
    - i. The type of flare.
    - ii. All visible emissions readings.
    - iii. Heat content determination.
    - iv. Gas flow rate or bypass measurement.
    - v. Exit velocity determination.
  - b. Value and length of time for exceedance of applicable parameters monitored under sections 40 CFR 60.756 (a), (b), (c), and (d);
  - c. Description and duration of all periods when the control device was not working for a period exceeding 1 hour and length of time control device was not operating;
  - d. All periods when the collection system was not operating in excess of 5 days;
  - e. The location of each exceedance of the 500 parts per million surface methane concentration, and the concentration recorded at each location for which an exceedance was recorded as provided in 40 CFR 60.755 (c);
  - f. The date of installation and the location of each well or collection system expansion added pursuant to paragraphs (a) (3), (b), and (c) (4) of 60.755.



Items (b) through (f) shall be submitted every six months. Semi-annual report shall cover the calendar year (January through June and July through December). One copy of the reports shall be submitted to U.S. Environmental Protection Agency at the address specified in condition 25. The annual reports and semi-annual reports, to include 40 CFR 63 NESHAP Subpart AAAA reports (Subsection 63.1930), shall be submitted by **March 1** and **September 1** of the calendar year.

(9 VAC 5-80-110, 40 CFR 60.757 and Condition 28 of the NSR permit dated 01/28/2010)

22. **Fuel Burning and Process Equipment Requirements-(emission unit ID#P01, PCD-1, PCD-2, PCD-3)-Reporting** - The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the department by **April 15** of each year. The calculations and final amount of emissions are subject to verification and final determination by the department.

(9 VAC 5-80-110 and Condition 31 of the NSR permit dated 01/28/2010)

23. **Fuel Burning and Process Equipment Requirements-(emission unit ID#P01, PCD-1, PCD-2, PCD-3)-Reporting** - The permittee shall submit a closure report to the Director, Piedmont Region, within 30 days of the date the MSW landfill stopped accepting waste waste as required by 40 CFR 60 Subpart WWW.

(9 VAC 5-80-110, 40 CFR 60.757(d) and Condition 29 of the NSR permit dated 01/28/2010)

24. **Fuel Burning and Process Equipment Requirements-(emission unit ID#P01, PCD-1, PCD-2, PCD-3)-Reporting** - The permittee shall submit an equipment removal report to the Director, Piedmont Region, 30 days prior to the removal or cessation of operation of the control equipment.

(1) The equipment removal report shall contain all of the following items:

- (i) A copy of the closure report submitted in accordance with 40 CFR 60.757(d);
- (ii) A copy of the initial performance test report demonstrating that the 15 year minimum control period has expired; and
- (iii) Dated copies of three successive NMOC emission rate reports demonstrating that the landfill is no longer producing 50 megagrams or greater of NMOC per year.

(2) The Administrator may request such additional information as may be necessary to verify that all of the conditions for removal in 40 CFR 60.752(b)(2)(v) below have been met.

The collection and control system may be capped or removed provided that all the conditions of paragraphs 40 CFR 60.752(b)(2)(v) (A), (B), and (C) are met:

- (A) The landfill shall be a closed landfill as defined in 40 CFR 60.751. A closure report shall be submitted to the Administrator as provided in 40 CFR 60.757(d);
- (B) The collection and control system shall have been in operation a minimum of 15 years; and
- (C) Following the procedures specified in 40 CFR 60.754(b), the calculated NMOC gas produced by the landfill shall be less than 50 megagrams per year on three successive test dates. The test dates shall be no less than 90 days apart, and no more than 180 days apart.

(9 VAC 5-80-110, 40 CFR 60.752(b)(2)(v), 40 CFR 60.757(d-e) and Condition 30 of the NSR permit dated 01/28/2010)

25. **Fuel Burning and Process Equipment and Process Equipment Requirements-(emission unit ID# PCD-1, PCD-2, PCD-3)-Reporting** - The permittee shall furnish written notification to the Director, Piedmont Regional Office:

- a. The actual date on which construction of each of the new open flares commenced within 30 days after such date.
- b. The anticipated start-up date for each of the new open flares postmarked not more than 60 days nor less than 5 days prior to such date.
- c. The actual start-up date of each of the new open flares no later than 15 days after the actual date.
- d. The anticipated date for conducting performance tests required by Conditions 18 and 20 at least 30 days prior to such date.

Copies of the written notifications referenced in items a through d above are to be sent to:

Associate Director  
Office of Air Enforcement (3AP10)  
U.S. Environmental Protection Agency Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029

R3\_APD Permits@epa.gov

(9 VAC 5-80-110, 40 CFR 60.9(a) and Condition 33 of the NSR permit dated 1/28/2010)

26. **Landfill Reporting** - On March 1<sup>st</sup> and September 1<sup>st</sup> of each year, routine reports required by the Landfill MACT and the NSPS for the operation of the GCCS shall be submitted to the DEQ. Other non-routine reports, based on construction or operating situations are described below.

Report Name	Periods Covered	Report Due Dates	Ref. Condition Nos.	Regulation Citations
NSPS Compliance	Jan, 1 <sup>st</sup> to Jun. 30 <sup>th</sup> Jul. 1 <sup>st</sup> to Dec. 31 <sup>st</sup>	March 1 <sup>st</sup> & Sept. 1 <sup>st</sup>	10, 11, 21	40 CFR 60.753 to 60.757
Landfill MACT, SSM Report	Jan, 1 <sup>st</sup> to Jun. 30 <sup>th</sup> Jul. 1 <sup>st</sup> to Dec. 31 <sup>st</sup>	March 1 <sup>st</sup> & Sept. 1 <sup>st</sup>	21, 27	40 CFR 63.1980
Gas Well as-built <u>On-site</u> Update Report	Within 60 days of construction	As required by construction activity	16	40 CFR 60.752 (b)(2)(ii)(A) and 40 CFR 758
Semi-annual Monitoring	Jan, 1 <sup>st</sup> to Jun. 30 <sup>th</sup> Jul. 1 <sup>st</sup> to Dec. 31 <sup>st</sup>	March 1 <sup>st</sup> & Sept. 1 <sup>st</sup>	33	9 VAC 5-80-110

(9 VAC 5-80-110, 40 CFR 60.752 (b)(2)(ii)(A), 40 CFR 60.753 to 40 CFR 60.757 and 40 CFR 63.1980)

27. **NSPS Report Detail** - The permittee shall maintain for 5 years, readily accessible complete records of the following:
- a. Instances when positive pressure at a wellhead occurred due to efforts to avoid a fire. If no such instances occur, the permittee shall submit a negative report.
  - b. Values measured, time recorded for each exceedances of pressure, temperature, nitrogen or oxygen measurements at wellheads. Exceptions exist for pressure where a geomembrane or synthetic cover is used and for decommissioned wells.
  - c. Description and duration of all periods when the control device was not operating for a period exceeding 1 hour and length of time the control device was not operating.
  - d. All instances when the GCCS was not operating for more than five consecutive days.
  - e. All instances where surface methane concentration exceeded 500 ppm; the actual concentration recorded and the location on the plot plan of that exceedance.
  - f. Records of GCCS expansion, including dates, locations and equipment installed in the process of expanding the GCCS.
  - g. Startup, shutdown and malfunction (SSM) plan activity reports.

(9 VAC 5-80-110, 40 CFR 60.757 (f), 40 CFR 60.753 (b)(1) and 40 CFR 63.1980)

28. **Notifications** - The permittee shall furnish written notification to the Director, Piedmont Regional Office of the anticipated dates of performance tests, postmarked at least 30 days prior to the date of the tests.

Copies of these written notifications shall be sent to:

R3\_APD\_Permits@epa.gov

(9 VAC 5-80-110 and 40 CFR 60.7 (a))

**Facility Wide Requirements-(emission unit ID#P01, PCD-1, PCD-2, PCD-3) - Limitations -**

29. **Facility Wide Requirements-(emission unit ID# PCD-1, PCD-2, PCD-3) - Limitations** - Emissions from the operation of all flares shall not exceed the limits specified below:

Particulate Matter/PM <sub>10</sub>	14.2 tons/yr (9 VAC 5-50-260)
Sulfur Dioxide	23.9 tons/yr (9 VAC 5-50-260)
Nitrogen Oxides	58.1 tons/yr (9 VAC 5-50-260)
Carbon Monoxide	174.1 tons/yr (9 VAC 5-50-260)
Non-Methane Organic Compounds	2.9 tons/yr (9 VAC 5-50-260)
Volatile Organic Compounds	1.7 tons/yr (9 VAC 5-50-260)

(9 VAC 5-80-110 and Condition 17 of the NSR permit dated 01/28/2010)

30. **Facility Wide Requirements-(emission unit ID#P01) - Limitations** - Unless otherwise specified, dust emission controls shall include the following or equivalent as a minimum:

- a. Dust from grading, cell construction, waste compaction, application of daily cover, wood waste chipping operations, storage piles, and traffic areas shall be controlled by wet suppression or equivalent (as approved by the DEQ) control measures.
- b. All material being stockpiled shall be kept moist to control dust during storage, handling, or covered to minimize emissions.
- c. Dust from haul roads shall be controlled by wet suppression and prompt removal of dried sediment resulting from soil erosion and dirt spilled or tracked onto paved surfaces within the landfill.
- d. Reasonable precautions shall be taken to prevent deposition of dirt on public roads and subsequent dust emissions. Dirt spilled or tracked onto paved surfaces shall be promptly removed to prevent particulate matter from becoming airborne.

(9 VAC 5-80-110 and Condition 6 of the NSR permit dated 01/28/2010)

31. **Facility Wide Requirements-(emission unit ID#P01, PCD-1, PCD-2, PCD-3) - Limitations** - Except where this permit is more restrictive than the applicable requirement, the MSW landfill shall be constructed and operated in accordance with 40 CFR 60, Subpart WWW.

(9 VAC 5-80-110 and Condition 9 of the NSR permit dated 01/28/2010)

32. **Facility Wide Requirements-(emission unit ID#P01, PCD-1, PCD-2, PCD-3) - Limitations** - The permittee shall demonstrate compliance with operational standards for the landfill gas collection and control system required by Subpart WWW (40 CFR 60.753) in accordance with appropriate subsection(s) of Subpart WWW (40 CFR 60.755). The permittee shall demonstrate compliance with the landfill gas collection and control system requirements of Subpart WWW (40 CFR 60.752) in accordance with appropriate subsection(s) of Subpart WWW (40 CFR 60.755). All reports required to demonstrate compliance with the compliance requirements of Subpart WWW (40 CFR 60.755) shall be prepared and submitted to the Piedmont Regional Office as required by Subpart WWW (40 CFR 60.755).

(9 VAC 5-80-110 and Condition 7 of the NSR permit dated 01/28/2010)

33. **Facility Wide Requirements-(emission unit ID#P01, PCD-1, PCD-2, PCD-3) - Limitations** - Except where the permit is more restrictive than the applicable requirements, the landfill shall be operated in compliance with the requirements of 40 CFR 60, NSPS Subpart WWW and 40 CFR 63, NESHAP Subpart AAAA.

(9 VAC 5-80-110 and Condition 26 of the NSR permit dated 01/28/2010)

**Insignificant Emission Units**

The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

<b>Emission Unit No.</b>	<b>Emission Unit Description</b>	<b>Citation</b>	<b>Pollutant(s) Emitted</b>	<b>Rated Capacity (5-80-720 C)</b>
P02	Northern Solid Waste Disposal Area (NSWDA)	5-80-720 B.	NMOC (60.754(a)(1)(i))	6.6 million Mg/ 7,661,500 CY
T01	Fixed roof, vertical leachate storage tank	5-80-720 B.	VOC	175,000 Gallon
T02	Fixed roof, vertical leachate storage tank	5-80-720 B.	VOC	365,000 Gallon
T03	Fixed roof, vertical leachate storage tank	5-80-720 B.	VOC	365,000 Gallon
T04	Fixed roof, vertical leachate storage tank	5-80-720 B.	VOC	450,000 Gallon
T05	Fixed roof, vertical leachate storage tank	5-80-720 B.	VOC	325,000 Gallon
T06	Fixed roof, vertical leachate storage tank	5-80-720 B.	VOC	325,000 Gallon
T07	Fixed roof, vertical leachate storage tank	5-80-720 B.	VOC	325,000 Gallon
T08	Fixed roof, vertical leachate storage tank (to be installed at a future date)	5-80-720 B.	VOC	325,000 Gallon
T09	Diesel fuel storage tank	5-80-720 B.	VOC	1,000 Gallon
T010	Diesel fuel storage tank	5-80-720 B.	VOC	1,000 Gallon
T011	Unleaded gasoline storage tank	5-80-720 B.	VOC	500 Gallon
T012	Motor Oil storage tank	5-80-720 B.	VOC	550 Gallon
T013	Transmission Fluid storage tank	5-80-720 B.	VOC	550 Gallon

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted	Rated Capacity (5-80-720 C)
T014	Differential Oil storage tank	5-80-720 B.	VOC	500 Gallon
T015	Used Oil storage tank	5-80-720 B.	VOC	275 Gallon
T016	Hydraulic Fluid storage tank	5-80-720 B.	VOC	1,000 Gallon
T017	Used Oil storage tank	5-80-720 B.	VOC	500 Gallon
T018	Lube Oil storage tank	5-80-720 B.	VOC	55 Gallon
T019	Gear Oil storage tank	5-80-720 B.	VOC	55 Gallon
T020	Used Oil storage tank	5-80-720 B.	VOC	55 Gallon
T021	Diesel fuel storage tank	5-80-720 B.	VOC	3,000 Gallon

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

### Permit Shield and Inapplicable Requirements

Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
9 VAC 5-40-5800 and 40 CFR 60 subpart Cc	Emission Standards and Emission Guidelines for Sanitary Landfills	These regulations only apply to municipal solid waste landfills which commenced construction, reconstruction or modification before May 30 1991.
40 CFR 60 subpart Kb	Volatile Organic Liquid Storage Vessels	The leachate storage tanks have a vapor pressure below the 40 CFR 60 Subpart Kb thresholds. NSPS Subpart Kb does not apply based on the size of the all other listed tanks and from recordkeeping requirements as revised on October 13, 2003.
40 CFR 60 subparts IIII	NSPS CI Engines	The source categories cited in these regulations do not exist at the facility.
40 CFR 64	Compliance Assurance Monitoring	The Landfill is subject to an NSPS that was proposed after November 15, 1990. Therefore, this regulation does not apply.
40 CFR 75	Acid Rain Regulations	This landfill does not have a "Qualifying Facility."
40 CFR Parts 51,52,70 and 71	Title V Greenhouse Gas Tailoring Rule,	Title V Greenhouse Gas Tailoring Rule, 40 CFR Parts 51,52,70 and 71, does not apply to the facility as it is an existing source not currently subject to PSD for any pollutant.
9 VAC 5-40-20 A.4	startup, shut down, and malfunction opacity exclusion	The startup, shut down, and malfunction opacity exclusion listed in 9 VAC 5-40-20 A.4 cannot be included in any Title V permit. This portion of the regulation is not part of the federally approved state implementation plan. The opacity standard applies to existing sources at all times including startup, shutdown, and malfunction. Opacity exceedances during malfunction can be affirmatively defended provided all requirements of the affirmative defense section of this permit are met. Opacity exceedances during startup and shut down will be reviewed with enforcement discretion using the requirements of 9 VAC 5-40-20 E, which state that "At all times, including periods of startup, shutdown, soot blowing and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions."



Nothing in this permit shield shall alter the provisions of § 303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by the administrator pursuant to § 114 of the federal Clean Air Act, (ii) the Board pursuant to § 10.1-1314 or § 10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to § 10.1-1307.3 of the Virginia Air Pollution Control Law.

(9 VAC 5-80-140)

#### **General Conditions**

34. **General Conditions - Federal Enforceability** -All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.
- (9 VAC 5-80-110 N)
35. **General Conditions - Permit Expiration**- This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9 VAC 5-80-80, the right of the facility to operate shall be terminated upon permit expiration.
- (9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
36. **General Conditions - Permit Expiration**-The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.
- (9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
37. **General Conditions - Permit Expiration**-If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.
- (9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
38. **General Conditions - Permit Expiration**-No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 80.
- (9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)

39. **General Conditions - Permit Expiration**-If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
- (9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
40. **General Conditions - Permit Expiration**-The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9 VAC 5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.
- (9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
41. **General Conditions -Recordkeeping and Reporting** - All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
- a. The date, place as defined in the permit, and time of sampling or measurements.
  - b. The date(s) analyses were performed.
  - c. The company or entity that performed the analyses.
  - d. The analytical techniques or methods used.
  - e. The results of such analyses.
  - f. The operating conditions existing at the time of sampling or measurement.
- (9 VAC 5-80-110 F)
42. **General Conditions -Recordkeeping and Reporting** - Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
- (9 VAC 5-80-110 F)
43. **General Conditions -Recordkeeping and Reporting** - The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than **March 1** and **September 1** of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:
- a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.

- b. All deviations from permit requirements. For purpose of this permit, deviations include, but are not limited to:
  - (1) Exceedance of emissions limitations or operational restrictions;
  - (2) Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or Compliance Assurance Monitoring (CAM) which indicates an exceedance of emission limitations or operational restrictions; or,
  - (3) Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.
- c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that "no deviations from permit requirements occurred during this semi-annual reporting period."

(9 VAC 5-80-110 F)

44. **General Conditions - Annual Compliance Certification** - Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than March 1 each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices for the period ending December 31. The compliance certification shall comply with such additional requirements that may be specified pursuant to § 114(a)(3) and § 504(b) of the federal Clean Air Act. The permittee shall maintain a copy of the certification for five (5) years after submittal of the certification. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:
- a. The time period included in the certification. The time period to be addressed is January 1 to December 31.
  - b. The identification of each term or condition of the permit that is the basis of the certification.
  - c. The compliance status.
  - d. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.
  - e. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period.
  - f. Such other facts as the permit may require to determine the compliance status of the source.

- g. One copy of the annual compliance certification shall be submitted to EPA in electronic format only. The certification document should be sent to the following electronic mailing address:

R3\_APD\_Permits@epa.gov

(9 VAC 5-80-110 K.5)

45. **General Conditions - Permit Deviation Reporting** - The permittee shall notify the Director, Piedmont Regional Office within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to Condition 43 of this permit.

(9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)

46. **General Conditions - Failure/Malfunction Reporting** - In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours after the malfunction is discovered, notify the Director, Piedmont Regional Office by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within 14 days of discovery provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Director, Piedmont Regional Office.

(9 VAC 5-20-180 C)

47. **General Conditions - Severability** - The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.

(9 VAC 5-80-110 G.1)

48. **General Conditions - Duty to Comply** - The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is ground for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.

(9 VAC 5-80-110 G.2)

49. **General Conditions - Need to Halt or Reduce Activity not a Defense** - It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- (9 VAC 5-80-110 G.3)
50. **General Conditions - Permit Modification** - A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9 VAC 5-80-50, 9 VAC 5-80-1100, 9 VAC 5-80-1605, or 9 VAC 5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.
- (9 VAC 5-80-190 and 9 VAC 5-80-260)
51. **General Conditions - Property Rights** - The permit does not convey any property rights of any sort, or any exclusive privilege.
- (9 VAC 5-80-110 G.5)
52. **General Conditions - Duty to Submit Information** - The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.
- (9 VAC 5-80-110 G.6)
53. **General Conditions - Duty to Submit Information** - Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G.
- (9 VAC 5-80-110 K.1)
54. **General Conditions - Duty to Pay Permit Fees** - The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-300 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-350 in addition to an annual permit maintenance fee consistent with the requirements of 9 VAC 5-80-2310 through 9 VAC 5-80-2350. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by April 15 of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department. The amount of the annual permit maintenance fee shall be the largest applicable base permit maintenance fee amount from Table 8-11A in 9 VAC 5-80-2340, adjusted annually by the change in the Consumer Price Index.
- (9 VAC 5-80-110 H, 9 VAC 5-80-340 C and 9 VAC 5-80-2340 B)

55. **General Conditions - Fugitive Dust Emission Standards** - During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:

- a. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
- b. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;
- c. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or similar operations;
- d. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
- e. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9 VAC 5-50-90)

56. **General Conditions - Startup, Shutdown, and Malfunction** - At all times, including periods of startup, shutdown, and soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9 VAC 5-50-20 E)

57. **General Conditions - Alternative Operating Scenarios** - Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80, Article 1.

(9 VAC 5-80-110 J)

58. **General Conditions - Inspection and Entry Requirements** - The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:
- a. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
  - b. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
  - c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
  - d. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.
- (9 VAC 5-80-110 K.2)
59. **General Conditions - Reopening For Cause** - The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F. The conditions for reopening a permit are as follows:
- a. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
  - b. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
  - c. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.
- (9 VAC 5-80-110 L)
60. **General Conditions - Permit Availability** - Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.
- (9 VAC 5-80-150 E)
61. **General Conditions - Transfer of Permits** - No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.
- (9 VAC 5-80-160)

62. **General Conditions - Transfer of Permits** - In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.  
(9 VAC 5-80-160)
63. **General Conditions - Transfer of Permits** - In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.  
(9 VAC 5-80-160)
64. **General Conditions - Malfunction as an Affirmative Defense** - A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the requirements of the following condition are met.  
(9 VAC 5-80-250)
65. **General Conditions - Malfunction as an Affirmative Defense** - The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:
- a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.
  - b. The permitted facility was at the time being properly operated.
  - c. During the period of the malfunction the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.
  - d. The permittee notified the Board of the malfunction within two working days following the time when the emission limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirements of 9 VAC 5-80-110 F.2.b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirement under 9 VAC 5-20-180 C.
- (9 VAC 5-80-250)
66. **General Conditions - Malfunction as an Affirmative Defense** - In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof.  
(9 VAC 5-80-250)



67. **General Conditions - Malfunction as an Affirmative Defense** - The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any applicable requirement.  
  
(9 VAC 5-80-250)
68. **General Conditions - Permit Revocation or Termination for Cause** - A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe any permit for any grounds for revocation or termination or for any other violations of these regulations.  
  
(9 VAC 5-80-190 C and 9 VAC 5-80-260)
69. **General Conditions - Duty to Supplement or Correct Application** - Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.  
  
(9 VAC 5-80-80 E)
70. **General Conditions - Stratospheric Ozone Protection** - If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.  
  
(40 CFR Part 82, Subparts A-F)
71. **General Conditions - Asbestos Requirements** - The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40 CFR 61) Subpart M, National Emission Standards for Asbestos as it applies to the following: Standards for Demolition and Renovation (40 CFR 61.145), Standards for Insulating Materials (40 CFR 61.148), and Standards for Waste Disposal (40 CFR 61.150).  
  
(9 VAC 5-60-70 and 9 VAC 5-80-110 A.1)
73. **General Conditions - Accidental Release Prevention** - If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.  
  
(40 CFR Part 68)

74. **General Conditions - Changes to Permits for Emissions Trading** - No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.

(9 VAC 5-80-110 I)

75. **General Conditions - Emissions Trading** - Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:

- a. All terms and conditions required under 9 VAC 5-80-110, except subsection N, shall be included to determine compliance.
- b. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
- c. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.

(9 VAC 5-80-110 I)

#### **State-Only Enforceable Requirements**

76. **State-Only Enforceable Requirements** - The following terms and conditions are not required under the federal Clean Air Act or under any of its applicable federal requirements, and are not subject to the requirements of 9 VAC 5-80-290 concerning review of proposed permits by EPA and draft permits by affected states.

1. 9 VAC 5 Chapter 50, Part II, Article 2: Standards of Performance for Odorous Emissions
2. 9 VAC Chapter 50, Part II, Article 3: Standards of Performance for Toxic Pollutants

(9 VAC 5-80-110 N and 9 VAC 5-80-300)

**To:** Air Compliance Manager  
Department of Environmental Quality – Piedmont Regional Office  
4949-A Cox Road  
Glen Allen, VA 23060

**From:** (Facility Name)  
Registration No. \_\_\_\_\_

**Re:** TITLE V ANNUAL COMPLIANCE CERTIFICATION

**Date:**

Please find attached our Title V Annual Compliance Certification for the period from \_\_\_\_/\_\_\_\_/\_\_\_\_ to \_\_\_\_/\_\_\_\_/\_\_\_\_. It identifies each term or condition of the permit that is the basis of the certification. All deviations and periods of non-compliance for the period have been addressed in semi-annual monitoring reports that have either been previously submitted or are enclosed.

**Certification:** I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering and evaluating the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Name & Title)

cc: Director, Air and Waste Division (Mail drop 3AP00)  
United States Environmental Protection Agency -- Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029

*(Annual Compliance Certifications are due 60 days following end of reporting period.)*

To: Air Compliance Manager  
Department of Environmental Quality – Piedmont Regional Office  
4949-A Cox Road  
Glen Allen, VA 23060

From: (Facility Name)

Reg. No. \_\_\_\_\_

Re: PROMPT DEVIATION REPORT – Pursuant to Title V Permit

Date:

This confirms the deviation reported to the Regional Office at \_\_\_\_\_ o'clock on \_\_\_\_/\_\_\_\_/\_\_\_\_.  
The details are described below. The deviation may have caused excess emissions for more than one hour, consistent with specified averaging times. None of these deviations were related to a malfunction.

Start date & time:	End date & time:	Estimated Duration:
Deviation from which permit condition ( <i>condition number and brief description</i> ):		
Description of incident ( <i>including emission unit affected</i> ):		
Description of Monitoring Requirement for affected unit(s):		
Probable cause:		
Description of corrective measures taken ( <i>demonstrating a timely &amp; appropriate response</i> ):		
Description of preventive measures taken:		

**Certification:** I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering and evaluating the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

\_\_\_\_\_  
(Signature )  
(Name & Title)

To: Air Compliance Manager  
Department of Environmental Quality – Piedmont Regional Office  
4949-A Cox Road, Glen Allen, VA 23060

From: (Facility Name)

Reg. No. \_\_\_\_\_

Re: SEMI-ANNUAL MONITORING REPORT – Pursuant to Title V Permit

Date:

The following monitoring report is submitted as required by our Title V permit. For the purposes of this report, deviation means (1) exceedances of emission limits, as determined by such means as stack testing, continuous emission monitors, parametric monitoring and EPA Method 9 visible emission evaluations; (2) excursions from control device operating parameter requirements such as afterburner temperature, scrubber flow rate, baghouse pressure drop; (3) excursions from operational restrictions things such as throughput, fuel quality, and coating VOC and HAP content; and (4) failure to meet monitoring, record keeping or reporting requirements. The report addresses all data points, which are above a standard, limit etc, according to the averaging period, if any, specified in the permit. If no averaging period is specified in the permit, then any monitored reading is considered a deviation to be reported. Deviations are reported regardless of whether they may have caused excess emissions or whether they were the result of a malfunction.

The period covered by the report is from \_\_\_\_/\_\_\_\_/\_\_\_\_ to \_\_\_\_/\_\_\_\_/\_\_\_\_.

During the reporting period:

- ☐ No deviations from permit requirements occurred during this semi-annual reporting period. (We conducted all required monitoring and associated record keeping and reporting. Required monitoring revealed no deviations from permit requirements. )
- ☐ We failed to conduct required monitoring/record keeping/reporting as explained on the attached form.
- ☐ We identified deviations as a result of required monitoring:
- ☐ Deviations were addressed in CEM Excess Emission Report(s) dated: \_\_\_\_\_
- ☐ Deviations were addressed in Fuel Report(s) dated: \_\_\_\_\_
- ☐ Deviations were addressed in MACT Report(s) dated: \_\_\_\_\_
- ☐ Deviations due to malfunctions were addressed in letters dated: \_\_\_\_\_
- ☐ Deviations were addressed in other report(s) dated: \_\_\_\_\_
- Type of report: \_\_\_\_\_
- ☐ Deviations were previously described in Prompt Deviation Reports dated: \_\_\_\_\_
- \_\_\_\_\_
- ☐ "Other" deviations, which were not previously reported, are described in the attachment.

Certification: I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering and evaluating the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

\_\_\_\_\_  
(Signature )

\_\_\_\_\_  
(Name & Title)

**FAILURE TO MONITOR, KEEP RECORDS OR REPORT** Registration No. \_\_\_\_\_  
Submitted as Part of Semi-Annual Monitoring Report

[illegible]

# Annual Compliance Certification

Registration No. \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_

Cond. No.	TERMS & CONDITIONS CONTAINED IN THE PERMIT <i>(list in order)</i>	MEANS OF DETERMINING COMPLIANCE STATUS	TYPE OF DATA THE MEANS PROVIDES	PERIODS OF NON- COMPLIANCE
			<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	<input type="checkbox"/> Yes <input type="checkbox"/> No

**"OTHER" DEVIATIONS**

Submitted as Part of Semi-Annual Monitoring Report

Registration No. \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_

Condition No. & Description of Requirement	Description of Deviation (time, emission unit, description of event, cause)	Description of Associated Monitoring Requirement	Description of corrective measures taken ( <i>demonstrating a timely &amp; appropriate response</i> )

(Report deviations which may have caused excess emissions for more than one hour on a deviation report form, not here.)